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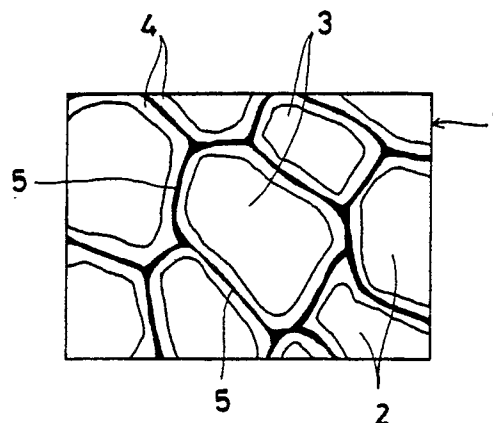
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54 **Semiconductor ceramic of grain boundary insulation type.**

57 There is disclosed a semiconductor ceramic of grain boundary insulation type comprising a polycrystalline substance. Each of grains (2) constituting said polycrystalline substance comprises a semiconductive oxide main phase (3) and a dielectric oxide composite phase (4) surrounding said main phase (3) and composed of a component of said main phase (3) and a component other than that of said main phase (3).

FIG. 1





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	PHILIPS TECHNICAL REVIEW vol. 41, no. 11/12, 1983/1984, pages 338-346, Eindhoven, NL; R. MAUCZOK et al.: "Ceramic boundary-layer capacitors" * page 338, left column; page 339; page 344, left column; figures 1,7,8,10 *	1,2,4	C 22 C 29/12 H 01 B 3/12 C 04 B 35/00
Y	idem ---	3	
Y	GLASS AND CERAMICS vol. 37, nos. 1,2, January/February 1980, pages 39-41, New York, US; K.K. KHRISTOFOROV et al.: "Investigating the interchrySTALLine sheets in ceramic based on ZnO" * page 39 *	3	
A	idem ---	1,2,4	
X	JOURNAL OF THE AMERICAN CERAMIC SOCIETY vol. 64, no. 12, December 1981, pages 687-690, Columbus, Ohio, US; P.E.C. FRANKEN et al.: "Microstructure of SrTiO ₃ Boundary-Layer Capacitor Material"* page 687, left column; pages 688-690; figures 1,5-7 *	1,2,4	TECHNICAL FIELDS SEARCHED (Int. Cl.4) C 04 B H 01 B H 01 G
X	EP-A-0 153 412 (MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD.) * page 4, lines 1-9; page 30, line 1 - page 31, line 24; claim 1 *	1,2,4	
X	EP-A-0 038 044 (MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD.) * page 1, line 1 - page 2, line 19; table 1 * --- -/-	1,2	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 30-06-1990	Examiner KLOPFENSTEIN P R
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	EP-A-0 157 276 (MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD.) * page 3, lines 5-16; page 63; abstract *	1,2,4	
A	GB-A-2 080 789 (UNIVERSITY OF ILLINOIS FOUNDATION) * abstract; page 1, line 35 - page 2, line 24 * -----	1-4	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
The present search report has been drawn up for all claims			
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<div>CATEGORY OF CITED DOCUMENTS</div> <div>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</div> <div>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</div>			